ATGAAGACAACCATTATTTTGATACTGACCCATTGGGTCTACAGTCAAAACCCAACCAGTGGCAAC AACACAGCCACATTATGTCTGGGACACCATGCAGTAGCAAATGGAACATTGGTAAAAACAATAACTGAT GACCAAATTGAGGTGACAAATGCTACTGAATTAGTCCAGAGCATTTCAATAGGGAAAATATGCAACAAC TCATATAGGGTTCTAGATGGAAGAAATTGCACATTAATAGATGCAATGCTAGGAGACCCCCATTGTGAT GATITICAGTATGAGAATTGGGACCTCTTCATAGAAAGAAGCAGCGCTTTCAGCAATTGCTACCCATAT GACATCCCTGACTATGCATCCCTCCCTCCATTGTAGCATCCTCAGGAACATTAGAATTCACAGCAGAG GGCTTCACATGGACAGGTGTCACTCAAAACGGAAGAAGTGGAGCCTGCAAAAGGGGATCAGCCGATAGT TTCTTTAGCCGACTGAATTGGCTAACAAATCTGGAAATTCTTACCCCATATTGAATGTGACAATGCCT CCTGGAGATATTCTAATGATAAACAGTAATGGCAACTTAGTTGCACCGGGGGATATTTTAAATTGÁGA AATOGAAGCATCCCCAACGACAAACCATTTCAAAATGTGAACAAAATTACATATGGAAAATGCCCCAAG TATRICAGCCAAAACACTTTAAAGCTGGCCACTGGGATGAGGAATGTACCAGAAAAGCAAATCAGAGGA CGATATCAAAACTCGGAAGGAACACGACAAGCTGCAGATCTAAAGAGCACTCAAGCAGCCATAGACCAG ATCAATGGAAAATTAAACAGAGTCATTGAAAGGACCAATGAGAAATTCCATCAAATAGAAAAGGAATTC TCAGAAGTAGAAGGGAGAATCCAGGATTTGGAGAAGTATGTAGAAGACACCAAAATAGACCTATGGTCC TACAATGCAGAATTGCTGGTGGCTCTAGAAAATCAACATACAATTGACTTAACAGATGCAGAAATGAAT AAATTATTCGAGAAGACTAGGCGCCAGTTAAGAGAAAACGCCGAAGACATCGGAGGTGGATGTTTCAAG ATTIACCACAAATGTGATAATGCATGCATTGGATCAATAAGAAATGGGACATATGACCATTACATATAC AGAGATGAAGCATTAAACAACCGATTTCAAATCAAAAGTGTTGAGTTGAAATCAGGCTACAAAGATTGG ATACIGIGGATETCATICGCCATATCATGCTTCTTAATTIGCGTIGITCTATIGGGTTICATTATGTGG GCTTGCCRAAAAGGCAACATCAGGTGCAACATTTGCATTTGA

SEQ ID NO:3

FIGURE 1

ATGAAGACAACCATTATTTTGATACTACTGACCCATTGGGTCTACAGTCAAAACCCAACCAGTGGCAA CAACACAGCCACATTATGTCTGGGACACCATGCAGTAGCAAATGGAACATTGGTAAAAACAATAACTG ATGACCAAATTGAGGTGACAAATGCTACTGAATTAGTTCAGAGCATTTCAATAGGGAAAATATGCAAC AACTCATATAGAGTTCTAGATGGAAGAAATTGCACATTAATAGATGCAATGCTAGGAGACCCCCACTG CATATGACATCCCTGACTATGCATCGCTCCGGTCCATTGTAGCATCCTCAGGAACATTGGAATTCACA GCAGAGGGATTCACATGGACAGGTGTCACTCAAAACGGAAGAAGTGGAGCCTGCAAAAGGGGATCAGC CGATAGTTTCTTTAGCCGACTGAATTGGCTAACAAAATCTGGAAACTCTTACCCCACATTGAATGTGA CAATGCCTAACAATAAAAATTTCGACAAACTATACATCTGGGGGATTCATCACCCGAGCTCAAACCAA CAGCAAACAGAATTGTACATCCAAGAATCAGGACGAGTAACAGTCTCAACAAAAAGAAGTCAACAAAC CCATTGTAAAACCTGGAGATATCCTAATGATAAACAGTAATGGCAACTTAGTTGCACCGCGGGGATAT TYTAAATTGAAAACAGGGAAAAGCTCTGTAATGAGATCAGATGCACCCATAGACATTTGTGTGTCTGA ATGTATTACACCAAATGGAAGCATCCCCAACGACAAACCATTTCAAAATGTGAACAAAGTTACATATG GAAAATGCCCCAAGTATATCAGGCAAAACACTTTAAAGCTGGCCACTGGGATGAGGAATGTACCAGAA TGGGTGGTATGGATTCCGATATCAAAACTCGGAAGGAACAGGACAAGCTGCAGATCTAAAGAGCACTC AAGCAGCCATCGACCAGATTAATGGAAAATTAAACAGAGTGATTGAAAGGACCAATGAGAAATTCCAT CAAATAGAGAAGGAATTCTCAGAAGTAGAAGGGAGAATCCAGGACTTGGAGAAGTATGTAGAAGACAC CAAAATAGACCTATGGTCCTACAATGCAGAATTGCTGGTGGCTCTAGAAAATCAACATACAATTGACT TAACAGATGCAGAAATGAATAAATTATTCGAGAAGACTAGACGCCAGTTAAGAGAAAACGCGGAAGAC GACATATGACCATTACATATACAGAGATGAAGCATTAAACAACCGATTTCAAATCAAAGGTGTTGAGT TGAAATCAGGCTACAAAGATTGGATACTGTGGATTTCATTCGCCATATCATGCTTCTTAATTTGCGTT GTTCTATTGGGTTTCATTATGTGGGCTTGCCAAAAAGGCAACATCAGATGCAACATTTGCATTTGA

SEQ ID NO:5

ATGAACCCAAATCAAAAGATAATAACAATTGGATCTGCATCATTAGGAGTACTAATCCTCAAGGTCATT CTCCATGTAGTCAGCATTATAGTAACAGTACTGGTTCTCAATAACAATGGAACAGGTCTGAACTGCAAC ACAATTGAGTACATAGAAAGATCTTCAAATGAATACTACATGAACAACACCGAACCACTTTGTGAGGCC CAGGGCTTTGCACCATTTTCCAAAGACAATGGAATACGAATTGGGTCGAGAGGCCATGTTTTTGTAATA AGAGAACCTTTTGTATCATGTTCGCCCTCAGAATGTAGAACCTTTTTCCTCACACAGGGCTCATTACTC AATGACAAACATTCTAACGGCACAGTGAAGGACCGAAGTCCATATAGGACTTTGATGAGTGTCAAAATA GGGCAATCACCTAATGTGTATCAAGCTAGGTTTGAATCGGTGGCATGGTCAGCAACAGCATGCCATGAT GGAAAAAAATGGATGACAGTTGGAGTCACAGGGCCCGACAATCAAGCAGTTGCAGTAGTGAACTATGGA GGTGTTCCGGTTGATATTATTAATTCATGGGCATGGGATATCTTAAGAACCCAAGAATCGTCATGCACC TGCATTAAAGGAGACTGTTATTGGGTGATGACTGATGGACCGGCAAACAGGCAAGCTAAATATAGGATA TTCAAAGCAAAAAATGGAAGAATAATTGGGCAGACTGATATAAGTTTCAATGGGGGACACATAGAGGAG TGTTCTTGTTACCCCAATGAAGGGAAGGTGGAATGCATATGCAGGGACAACTGGAACTAAATAGA CCAATTCTGGTAATATCTTCTGATCTATCGTACACAGTCGGATATTTGTGTGCTGGCATTCCCACTGAC ACTOCTAGGGGAGAGGATAGTCAATTCACAGGCTCATGTACAAGCCCTTTGGGAAATAAAGGATACGGT GTAAAAGGTTTCGGGTTTCGACAAGGAACTGACGTATGGGCCGGGAAGGACAATTAGTAGGACTTCAAGA TCAGGATTCGAAATAATAAAGATCAGGAATGGTTGGACACAGAATAGTAAAGATCAAATCAGAAGGCAA GTGATTATTGATAACCTAAATTGGTCAGGATATAGCGGTTCTTTCACATTGCCGGTTGAACTAACAAAA AAGGGATGTTTAGTCCCCTGTTTCTGGGTTGAAATGATTAGAGGTAAACCTGAAGAAACAACAATATGG ACCTCTAGCAGCTCCATTGTGATGTGTGGAGTAGATCATAAAGTTGCCAGTTGGTCATGGCACGATCGA GCTATICTTCCCTTTGACATCGATAAGATGTAA

SEQ ID NO:8

4/6

ATGAATCCAAATCAAAAGATAATAACAATTGGATCTGCATCATTGGGAATATTAATCATCAACGTCATT CTCCATGTAGTCAGCATTATAGTAACAGTACTGGTCCTCAATAACAATGGAACAGGTCTGAACTGCAAA ACAATTGAGTACATAGAGAGACCTTCAAATGAATACTACATGAACAACACCGAACCACTTTGTGAGGCC CAAGGCTTTGCACCATTTTCCAAAGATAATGGAATACGAATTGGGTCGAGAGGCCATGTTTTTGTAATA AGAGAACCTTTTGTCTCATGTTCCCCCTCAGAATGTAGAACCTTTTTCCTCACACAGGGCTCATTACTC AATGACAAACATTCTAACGGCACAGTGAAGGACCGAAGTCCATATAGGACTTTGATGAGTGTCAAAATA GGGCAATCACCTAATGTGTATCAAGCTAGGTTTGAATCGGTGGCATGGTCAGCAACAGCATGGEATGAT GGAAAAAAATGGATGACAGTTGGAGTCACAGGGCCCGATAATCAAGCAATTGCAGTAGTGAACTATGGA GGTGTTCCGGTTGATATTAATTAATTCATGGGCAGGGGATATCTTAAGAACCCAAGAATCGTCATGCACC TGCATTAAAGGAGACTGTTATTGGGTGATGACTGATGGACCGGCAAATAGGCAAGCTAAATATAGGATA TTCAAAGCAAAAGATGGAAGAATAATTGGGCAGACTGATATAAGTTTCAATGGGGGACACATAGAGGAG TGTTCTTGTTACCCCAATGAAGGGAAGGTGGAATGCATATGCAGGGACAACTGGACTGGAACAAATAGA CCAATTCTGGTAATATCTTCTGATCTATCGTACACAGTCGGATATTTGTGTGCTGGCATTCCCACTGAC ACTCCTAGGGGAGAGATAGTCAATTCACAGGCTCATGTACAAGTCCTTTGGGAAATAAAGGATACGGT GTAAAAGGTTTCGGGTTTCGACAAGGAACTGACGTATGGGCCGGAAGGACAATTAGTAGGACTTCAAGA TCAGGATTCGAAATAATAAAATCAGGAATGGTTGGACACAGAACAGTAAAGACCAAATCAGAAGGCAA GTGATTATTGATAACCCAAATTGGTCAGGATATAGCGGTTCTTTCACATTGCCGGTTGAACTAACAAAA AAGGGATGTTTAGTCCCCTGTTTCTCGGTTGAAATGATTAGAGGTAAACCTGAAGAAACAACAATATGG ACCICTAGCAGCICCATICTCATCTCGAGTAGATCATAAAATTGCCAGTTGGTCATGGCACGATGGA GCTATTCTTCCCTTTGACATAGACAAGATGTAG

SEQ ID NO:9

FIGURE 4

ATGGCGTCTCAAGGCACCAAACGATCTTATGAGCAGATGGAAACTGATGGGGAACGCCAGAATGC AACTGAAATCAGAGCATCTGTCGGAAGGATGGTGGGAGGAATCGGCCGGTTTTATGTTCAGATGT GTACTGAGCTTAAATTAAACGACCATGAAGGGCGGCTGATTCAGAACAGCATAACAATAGAAAGG ATGGTACTTTCGGCATTCGACGAAAGAAGAACAAGTACCTCGAGGAGCATCCCAGTGCTGGGAA AGACCCTAAGAAAACGGGAGGCCCGATATACAGAAGGAAAGATGGGAAATGGATAAGAGAACTCA TCCTCCATGATAAAGAGGAAATCATGAGGGTCTGGCGTCAGGCCAACAATGGTGAAGATGCTACT GCTGGTCTTACCCATATGATGATCTGGCACTCCAATCTCAATGACACCACATACCAAAGAACAAG GGCTCTTGTTCGGACTGGGATGGATCCCAGAATGTGCTCTCTGATGCAAGGATCAACCCTCCCAC GGAGATCTGGAGCTGCCGGTGCTGCAGTAAAAGGTGTTGGAACAATGATAATGGAACTCATCAGG ATGATCAAACGCGGGATAAATGATCGAAATTTCTGGAGAGGTGAAAATGGTCGAAGAACCAGAAT TGCTTATGAAAGAATGTGCAATATCCTCAAAGGGAAATTTCAAACAGCAGCACAACGGGCTATGA TGGACCAAGTGAGGGAGGGCCGCAATCCTGGAAATGCTGAGATTGAGGATCTCATFFTCTTGGCA CCTIGCAGTAACCAGTGGGTATGACTTTGAGAAGGAAGGATACTCTCTGGTTGGGATTGATCCTT AGCCAGTTGGTGTGGATGGCATGCCATTCTGCAGCATTTGAGGACCTGAGAGTTTTGAATTTCAT TAGAGGAACAAAAGTAATCCCAAGAGGACAGTTGGCAACCAGAGGAGTGCAGATTGCTTCAAATG AAAACATGGAGACAATAGATTCTAGCACACTCGAACTGAGAAGCAGATATTGGGCAATAAGGACC AGAAGTGGAGGAAACACCAGTCAACAGAGAGCATCTGCAGGACAGATAAGTGTGCAACCTACTTT CTCAGTGCAGAGAAATCTTCCCTTTGAAAGAGCAACCATTATGGCTGCATTTACTGGGAACACTG AGCGGAGGACTTCCGACATGAGAACGGAAATCATAAGGATGATGGAAAATGCCAAATCAGAAGAT GTGTCTTTCCAGGGGGGGGGGGTCTTCGAGCTCTCGGACGAAAAGGCAACGAACCCGATCGTGCC TTCCTTTGACATGAGCAATGAAGGGTCTTATTTCTTCGGAGACAATGCTGAGGAGTATGACAGTT AA

SEQ ID NO:12



ATGGCGTCTCAAGGCACCAAACGATCTTATGAGCAGATGGAAACTGATGGGGAACGCCAGAATGCAACT GAAATCAGAGCATCTGTCGGAAGGATGGTGGGAGGAATCGGCCGGTFFTATGTTCAGATGTGTACTGAG CTTAAACTAAACGACCATGAAGGGCGGCTGATTCAGAACAGCATAACAATAGAAAGGATGGTACTCTCG GCATTCGACGAAAGAAGAACAAGTATCTCGAGGAGCATCCCAGTGCTGGGAAAGACCCTTAAGAAAACG GGAGGCCCGATATACAGAAGGAAAGATGGGAAATGGATGAGAGAACTCATCCTCCATGATAAAGAAGAA ATCATGAGGATCTGGCGTCAGGCCAACAATGGTGAAGACGCTACTGCTGGTCTTACTCATATGATGATC AGANTGTGCTCTCTGATGCAAGGCTCAACCCTCCCACGGAGATCTGGAGCCGCTGCTGCTGCAGTAAAA GGTGTTGGÄACAATGGTAATGGAACTCATCAGAATGATCAAAACGCGGGATAAATGATCGGAATTTCTGG AGAGGTGAAAATGGTCGAAGAACCAGAATTGCTTATGAAAGAATGTGCAATATCCTCAAAGGGAAATT CAGACAGCAGCACAACGGGCTATGATGGACCAGGTGAGGGGAAGGCCGCAATCCTGGAAACGCTGAGATT GAGGATCTCATTTTCTTGGCACGATCAGCACTTATTTTGAGAGGATCAGTAGCCCATAAATCATGCCTA GCACACAAGAGCCAGTTGGTGTGGATGGCATGCCATTCTGCAGCATTTGAGGACCTGAGAGTTTTGAAT TTCATTAGAGGAACCAAAGTAATCCCAAGAGGACAGTTAGCAACCAGAGGAGTGCAAATTGCTTCAAAT GAAAACATGGAGACAATAGATTCTAGCACACTCGAACTGAGAAGCAAATATTGGGCAATAAGGACCAGA AGTGGAGGAAACACCAGTCAACAGAGAGCATCTGCAGGACAGATAAGTGTGCAACCTACTTTCTCAGTG CAGAGAAATCTTCCCTTTGAAAGAGCAACCATTATGGCTGCATTCACTGGGAACACTGAAGGGAGGACT TCCGACATGAGAACGGAAATCATAAGGATGATGGAAAATGCCAAATCAGAAGATGTGTCTITCCAGGGG GAAGGGTCTTATTTCTTCGGAGACAATGCTGAGGAGTTTGACAATTAA

SEQ ID NO:13

FIGURE 6